

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	852	323/283.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/14 07:53
L3	7332	level shift circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/14 07:54
L4	24	2 L3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/14 07:54
L5	1	(current source capacitor mos depression mosfet level shift\$3).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/14 07:59
S1	6	((("20030222285") or ("6,359,490") or ("20030081436"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/24 11:36
S2	9	((("20030222285") or ("6,359,490") or ("20030081436") or ("6806516"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/24 11:37
S3	5	("4394590"   "5463520"   "5610426"   "6013932"   "6492686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/24 11:37
S4	1	("6806516").URPN.	USPAT	OR	ON	2009/02/24 11:40
S5	5	("4893159"   "5389811"   "5438213"   "5449940"   "5500542").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/24 11:41
S6	25	((RYOTARO) near2 (KUJO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/24 11:45

# EAST Search History (Prior Art)

S7	4	((("6,324,084") or ("6,927,986"))).PN.	USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/24 12:01
S8	2	"US 20080074074"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/02/24 18:19
S10	4	("6806516").PN.	USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/24 18:28
S11	5	("4394590"   "5463520"   "5610426"   "6013932"   "6492686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/24 18:31
S12	1	"US 7514908"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/04/24 18:40
S13	8	("20030001548"   "20080136487"   "5666280"   "6324084"   "6359493"   "6643144"   "6927986"   "7317302").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/24 18:41
S14	9	("4029973"   "4080539"   "4656373"   "5399915"   "5440263"   "5818258"   "5831470"   "5894230"   "6057726").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/24 19:29
S15	5	("6359493").URPN.	USPAT	OR	ON	2009/04/24 19:35
S16	0	level adj shift "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/04/24 19:48
S17	0	level adj shift "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:48
S18	0	level adj shift\$4 "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:48

## EAST Search History (Prior Art)

S19	6892	level adj shift\$4 high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:49
S20	2021	level adj shift\$4 adj circuit high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:49
S21	0	level adj shift\$4 adj circuit high adj level near low adj level gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:50
S22	1	level adj shift\$4 adj circuit high adj level low adj level gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:50
S23	3	level adj shift\$4 high adj level low adj level gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/24 19:51
S24	0	((kusuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/25 09:47
S25	0	((kustuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/25 09:48
S26	0	((kutsuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/25 09:48
S27	28	((katsuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/25 09:58
S28	181	input esd protection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 11:59

## EAST Search History (Prior Art)

S29	7097	level shift circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 11:59
S30	1	S28 S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 11:59
S31	5	mosfet (drain or source) adj connect\$3 adj substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 12:21
S32	5	mosfet (drain or source) adj connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 12:29
S33	5	mosfet (drain or source) near connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 12:30
S34	9	mosfet near (drain or source) near connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/04/25 12:30
S35	5088	323/222,223,225,268,271,282,285.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/25 12:54
S36	1346	363/59,60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/25 12:55

## EAST Search History (Prior Art)

S37	1847	327/333,390.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/25 12:55
S38	8213	S35 S36 S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/25 12:55
S39	2021	level adj shift\$4 adj circuit high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:56
S40	262	S38 S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:56
S41	483	S38 S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:57
S42	0	S41 gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:58
S43	250	S41 gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:58
S44	1264	level adj shift\$4 adj circuit high adj level low adj level gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:58

## EAST Search History (Prior Art)

S45	72	S40 current adj source	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/04/25 12:59
S46	6	((("20030222285") or ("6,359,490") or ("20030081436")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/13 20:32
S47	9	((("20030222285") or ("6,359,490") or ("20030081436") or ("6806516")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/13 20:32
S48	5	("4394590"   "5463520"   "5610426"   "6013932"   "6492686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S49	1	("6806516").URPN.	USPAT	OR	ON	2009/09/13 20:32
S50	5	("4893159"   "5389811"   "5438213"   "5449940"   "5500542").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S51	31	((RYOTARO) near2 (KUDO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S52	4	((("6,324,084") or ("6,927,986")).PN.	USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/13 20:32
S53	2	"US 20080074074"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/09/13 20:32
S54	4	("6806516").PN.	USPAT; USOCR; FPRS; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/13 20:32
S55	5	("4394590"   "5463520"   "5610426"   "6013932"   "6492686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S56	3	"US 7514908"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/09/13 20:32

# EAST Search History (Prior Art)

S57	8	("20030001548"   "20080136487"   "5666280"   "6324084"   "6359493"   "6643144"   "6927986"   "7317302").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S58	9	("4029973"   "4080539"   "4656373"   "5399915"   "5440263"   "5818258"   "5831470"   "5894230"   "6057726").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S59	5	("6359493").URPN.	USPAT	OR	ON	2009/09/13 20:32
S60	0	level adj shift "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2009/09/13 20:32
S61	0	level adj shift "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S62	0	level adj shift\$4 "high to low"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S63	7123	level adj shift\$4 high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S64	2086	level adj shift\$4 adj circuit high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S65	0	level adj shift\$4 adj circuit high adj level near low adj level gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S66	1	level adj shift\$4 adj circuit high adj level low adj level gate capcitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32

## EAST Search History (Prior Art)

S67	3	level adj shift\$4 high adj level low adj level gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S68	0	((kusuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S69	0	((kustuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S70	0	((kutsuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S71	28	((katsuji) near2 (satomi)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:32
S72	187	input esd protection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32
S73	7332	level shift circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32
S74	1	S72 S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S75	5	mosfet (drain or source) adj connect\$3 adj substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32
S76	5	mosfet (drain or source) adj connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32



## EAST Search History (Prior Art)

S77	5	mosfet (drain or source) near connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32
S78	9	mosfet near (drain or source) near connect\$3 near substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2009/09/13 20:32
S79	5350	323/222,223,225,268,271,282,285.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 20:32
S80	1366	363/59,60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 20:32
S81	1935	327/333,390.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 20:32
S82	8582	S79 S80 S81	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/13 20:32
S83	2086	level adj shift\$4 adj circuit high near low	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S84	275	S82 S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32

## EAST Search History (Prior Art)

S85	513	S82 S73	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S86	0	S85 gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S87	270	S85 gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S88	1321	level adj shift\$4 adj circuit high adj level low adj level gate capacitor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S89	73	S84 current adj source	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2009/09/13 20:32
S90	31	((RYOTARO) near2 (KUDO)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/13 20:33